

Krishnan, Ganapathy

From: Wilson, James
Sent: Friday, September 20, 2002 5:38 PM
To: Krishnan, Ganapathy

(FILE 'HOME' ENTERED AT 16:51:12 ON 20 SEP 2002)

FILE 'BABS, CAPLUS, CBNB, CEN, CIN, DKILIT, IFIPAT, JICST-EPLUS, PASCAL, PLASNEWS, PROMT, RAPRA, SCISEARCH, TEXTILETECH, USPATFULL, USPAT2, WPIDS, WTEXTILES, AGRICOLA, ALUMINIUM, ANABSTR, AQUIRE, BIOCOMMERCE, BIOTECHNO, CABA, CAOLD, CEABA-VTB, CERAB, ...' ENTERED AT 16:51:22 ON 20 SEP 2002

L1 207861 S LIVESTOCK
L2 8291 S L1 AND FED
L3 4654 S L2 AND FEED
L4 147 S L3 AND NUCLEIC ACID
L5 58 S L4 AND GLUTAMINE
L6 50 S L5 AND GLUTAMIC ACID
L7 601 S SUPPLEMENTAL FEED
L8 3 S L7 AND NUCLEIC ACID
L9 2788 S FEED AND GLUTAMINE
L10 408 S L9 AND LIVESTOCK
L11 0 S L10 AND FEED SUPPLEMENT
L12 0 S L10 AND SUPPLEMENT(W)FEED
L13 3919 S L1 AND AMINO ACID
L14 608 S L13 AND OLIGONUCLEOTIDE
L15 295 S L14 AND POLYNUCLEOTIDE
L16 75 S L15 AND FEED
L17 36 S L16 AND PIGS

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NEWS	2	Apr 08	"Ask CAS" for self-help around the clock
NEWS	3	Apr 09	BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS	4	Apr 09	ZDB will be removed from STN
NEWS	5	Apr 19	US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS	6	Apr 22	Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS	7	Apr 22	BIOSIS Gene Names now available in TOXCENTER
NEWS	8	Apr 22	Federal Research in Progress (FEDRIP) now available
NEWS	9	Jun 03	New e-mail delivery for search results now available
NEWS	10	Jun 10	MEDLINE Reload
NEWS	11	Jun 10	PCTFULL has been reloaded
NEWS	12	Jul 02	FOREGE no longer contains STANDARDS file segment
NEWS	13	Jul 22	USAN to be reloaded July 28, 2002; saved answer sets no longer valid
NEWS	14	Jul 29	Enhanced polymer searching in REGISTRY
NEWS	15	Jul 30	NETFIRST to be removed from STN
NEWS	16	Aug 08	CANCERLIT reload
NEWS	17	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS	18	Aug 08	NTIS has been reloaded and enhanced
NEWS	19	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS	20	Aug 19	IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS	21	Aug 19	The MEDLINE file segment of TOXCENTER has been reloaded
NEWS	22	Aug 26	Sequence searching in REGISTRY enhanced
NEWS	23	Sep 03	JAPIO has been reloaded and enhanced
NEWS	24	Sep 16	Experimental properties added to the REGISTRY file
NEWS	25	Sep 16	Indexing added to some pre-1967 records in CA/CAPLUS
NEWS	26	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS EXPRESS			February 1 CURRENT WINDOWS VERSION IS V6.0d, CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP), AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002
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FILE 'HOME' ENTERED AT 08:48:02 ON 19 SEP 2002

=> index bioscience

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED

COST IN U.S. DOLLARS

SINCE FILE

ENTRY

TOTAL

SESSION

FULL ESTIMATED COST

0.21

0.21

INDEX 'ADISALERTS, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI,
BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA,
CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB,
DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...'

ENTERED AT 08:48:14 ON 19 SEP 2002

64 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view
search error messages that display as 0* with SET DETAIL OFF.

=> s feed

80	FILE ADISALERTS
3	FILE ADISINSIGHT
63	FILE ADISNEWS
60788	FILE AGRICOLA
1646	FILE ANABSTR
19191	FILE AQUASCI
47956	FILE BIOBUSINESS
717	FILE BIOCOMMERCE
88102	FILE BIOSIS
5322	FILE BIOTECHABS
5322	FILE BIOTECHDS
4865	FILE BIOTECHNO
140946	FILE CABA
1624	FILE CANCERLIT
189518	FILE CAPLUS
10589	FILE CEABA-VTB
535	FILE CEN
6510	FILE CIN
1656	FILE CONFSCI
130	FILE CROPB
1363	FILE CROPU
702	FILE DDFB
507	FILE DDFU

23 FILES SEARCHED...

24766	FILE DGENE
702	FILE DRUGB
4	FILE DRUGLAUNCH
18	FILE DRUGMONOG2
2	FILE DRUGNL
1354	FILE DRUGU
4	FILE DRUGUPDATES
187	FILE EMBAL
15232	FILE EMBASE
9859	FILE ESBIODBASE
3381	FILE FEDRIP
928	FILE FOMAD
2171	FILE FOREGE

36 FILES SEARCHED...

11623	FILE FROSTI
20353	FILE FSTA
1446	FILE GENBANK
758	FILE HEALSAFE
127052	FILE IFIPAT

37427 FILE JICST-EPLUS
 43 FILE KOSMET
 15048 FILE LIFESCI
 205 FILE MEDICONE
 37150 FILE MEDLINE
 1532 FILE NIOSHTIC
 47 FILES SEARCHED...
 16151 FILE NTIS
 5097 FILE OCEAN
 28882 FILE PASCAL
 3 FILE PHAR
 52 FILE PHARMAML
 71 FILE PHIC
 13939 FILE PHIN
 105811 FILE PROMT
 55049 FILE SCISEARCH
 39701 FILE TOXCENTER
 430396 FILE USPATFULL
 2725 FILE USPAT2
 4169 FILE VETB
 14250 FILE VETU
 434794 FILE WPIDS
 434794 FILE WPINDEX

63 FILES HAVE ONE OR MORE ANSWERS, 64 FILES SEARCHED IN STNINDEX

L1 QUE FEED

=> s 11 and livestock

2436 FILE AGRICOLA
 5 FILE ANABSTR
 5 FILES SEARCHED...
 165 FILE AQUASCI
 16690 FILE BIOBUSINESS
 37 FILE BIOCOMMERCE
 8700 FILE BIOSIS
 123 FILE BIOTECHABS
 123 FILE BIOTECHDS
 99 FILE BIOTECHNO
 7098 FILE CABA
 27 FILE CANCERLIT
 2234 FILE CAPLUS
 22 FILE CEABA-VTB
 21 FILE CEN
 161 FILE CIN
 7 FILE CONFSCI
 3 FILE CROPB
 161 FILE CROPU
 2 FILE DDFB
 364 FILE DGENE
 24 FILES SEARCHED...
 2 FILE DRUGB
 2 FILE DRUGU
 3 FILE EMBAL
 179 FILE EMBASE
 275 FILE ESBIODBASE
 739 FILE FEDRIP
 37 FILE FOMAD
 680 FILE FROSTI
 161 FILE FSTA
 6 FILE GENBANK
 34 FILE HEALSAFE
 623 FILE IFIPAT
 5581 FILE JICST-EPLUS
 1 FILE KOSMET

320 FILE LIFESCI
 34 FILE MEDICONF
 343 FILE MEDLINE
 83 FILE NIOSHTIC
 645 FILE NTIS
 22 FILE OCEAN
 540 FILE PASCAL
 11 FILE PHIC
 2154 FILE PHIN
 5852 FILE PROMT
 738 FILE SCISEARCH
 1412 FILE TOXCENTER
 4273 FILE USPATFULL
 37 FILE USPAT2
 15 FILE VETB
 61 FILES SEARCHED...
 115 FILE VETU
 3492 FILE WPIDS
 3492 FILE WPINDEX

52 FILES HAVE ONE OR MORE ANSWERS, 64 FILES SEARCHED IN STNINDEX

L2 QUE L1 AND LIVESTOCK

=> s l2 and glutamine
 10 FILE BIOBUSINESS
 4 FILE BIOSIS
 1 FILE CABA
 2 FILE CAPLUS
 29 FILES SEARCHED...
 3 FILE FEDRIP
 1 FILE IFIPAT
 43 FILES SEARCHED...
 2 FILE PROMT
 395 FILE USPATFULL
 3 FILE USPAT2
 62 FILES SEARCHED...
 5 FILE WPIDS
 5 FILE WPINDEX

11 FILES HAVE ONE OR MORE ANSWERS, 64 FILES SEARCHED IN STNINDEX

L3 QUE L2 AND GLUTAMINE

=> d rank
 F1 395 USPATFULL
 F2 10 BIOBUSINESS
 F3 5 WPIDS
 F4 5 WPINDEX
 F5 4 BIOSIS
 F6 3 FEDRIP
 F7 3 USPAT2
 F8 2 CAPLUS
 F9 2 PROMT
 F10 1 CABA
 F11 1 IFIPAT

=> file uspatfull
 COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
3.71	3.92

FULL ESTIMATED COST

FILE 'USPATFULL' ENTERED AT 08:52:31 ON 19 SEP 2002
 CA INDEXING COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 17 Sep 2002 (20020917/PD)
FILE LAST UPDATED: 17 Sep 2002 (20020917/ED)
HIGHEST GRANTED PATENT NUMBER: US6453473
HIGHEST APPLICATION PUBLICATION NUMBER: US2002129432
CA INDEXING IS CURRENT THROUGH 17 Sep 2002 (20020917/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 17 Sep 2002 (20020917/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Aug 2002
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Aug 2002

>>> USPAT2 is now available. USPATFULL contains full text of the <<<
>>> original, i.e., the earliest published granted patents or <<<
>>> applications. USPAT2 contains full text of the latest US <<<
>>> publications, starting in 2001, for the inventions covered in <<<
>>> USPATFULL. A USPATFULL record contains not only the original <<<
>>> published document but also a list of any subsequent <<<
>>> publications. The publication number, patent kind code, and <<<
>>> publication date for all the US publications for an invention <<<
>>> are displayed in the PI (Patent Information) field of USPATFULL <<<
>>> records and may be searched in standard search fields, e.g., /PN, <<<
>>> /PK, etc. <<<

>>> USPATFULL and USPAT2 can be accessed and searched together <<<
>>> through the new cluster USPATALL. Type FILE USPATALL to <<<
>>> enter this cluster. <<<
>>> <<<
>>> Use USPATALL when searching terms such as patent assignees, <<<
>>> classifications, or claims, that may potentially change from <<<
>>> the earliest to the latest publication. <<<

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> s 13 and glutamic
386488 FEED
108644 FEEDS
430396 FEED
(FEED OR FEEDS)
8511 LIVESTOCK
37 LIVESTOCKS
8526 LIVESTOCK
(LIVESTOCK OR LIVESTOCKS)
24825 GLUTAMINE
124 GLUTAMINES
24848 GLUTAMINE
(GLUTAMINE OR GLUTAMINES)
27496 GLUTAMIC
L4 100 L3 AND GLUTAMIC

=> 14 and nucleic
L4 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s 14 and nucleic
47662 NUCLEIC
5 NUCLEICS
47663 NUCLEIC
(NUCLEIC OR NUCLEICS)
L5 76 L4 AND NUCLEIC

=> s 15 and acid
600450 ACID
340824 ACIDS

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616457 ACID
      (ACID OR ACIDS)
L6      76 L5 AND ACID

=> s 15 and efficiency
      475741 EFFICIENCY
      37827 EFFICIENCIES
      484978 EFFICIENCY
      (EFFICIENCY OR EFFICIENCIES)
L7      51 L5 AND EFFICIENCY

=> sl7 and body
SL7 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s 17 and body
      893445 BODY
      134303 BODIES
      923985 BODY
      (BODY OR BODIES)
L8      34 L7 AND BODY

=> s 18 and gain
      207674 GAIN
      36268 GAINS
      221200 GAIN
      (GAIN OR GAINS)
L9      16 L8 AND GAIN

=> dis 19 1-16 bib abs

L9  ANSWER 1 OF 16  USPATFULL
AN   2002:235051  USPATFULL
TI   Use of passive myostatin immunization
IN   El Halawani, Mohamed E., St. Paul, MN, UNITED STATES
      You, Seungkwon, Suwon, KOREA, REPUBLIC OF
PI   US 2002127234      A1   20020912
AI   US 2001-754826      A1   20010104 (9)
DT   Utility
FS   APPLICATION
LREP SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A., P.O. BOX 2938, MINNEAPOLIS,
      MN, 55402
CLMN  Number of Claims: 28
ECL   Exemplary Claim: 1
DRWN  20 Drawing Page(s)
LN.CNT 1965
AB    A method to alter the phenotype of animals, e.g., avians, which employs
      passive and active immunization is provided.

L9  ANSWER 2 OF 16  USPATFULL
AN   2002:175271  USPATFULL
TI   Insulin-like growth factor agonist molecules
IN   Chen, Yvonne Man-yee, San Mateo, CA, United States
      Clark, Ross G., Devonport, NEW ZEALAND
      Cochran, Andrea G., San Francisco, CA, United States
      Lowman, Henry B., El Granada, CA, United States
      Robinson, Iain C. A. F., 1 DNA Way, South San Francisco, CA, United
      States 94080
      Skelton, Nicholas J., San Mateo, CA, United States
PA   Genetech, Inc., South San Francisco, CA, United States (U.S.
      corporation) a part interest
      Robinson, Iain C. A. F., St. Albans, UNITED KINGDOM (non-U.S.

```

individual)
PI US 6420518 B1 20020716
AI US 1999-337227 19990622 (9)
RLI Continuation-in-part of Ser. No. US 1998-52888, filed on 31 Mar 1998,
now patented, Pat. No. US 6251865 Continuation-in-part of Ser. No. US
1997-825852, filed on 4 Apr 1997, now patented, Pat. No. US 6121416
DT Utility
FS GRANTED
EXNAM Primary Examiner: Romeo, David S.
LREP Hasak, Janet E.
CLMN Number of Claims: 8
ECL Exemplary Claim: 2
DRWN 4 Drawing Figure(s); 4 Drawing Page(s)
LN.CNT 3548

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Peptides are provided that inhibit the interaction of an IGF with any
one of its binding proteins and not to a human IGF receptor. These IGF
agonist peptides are useful to increase serum and tissue levels of
active IGFs in a mammal.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 3 OF 16 USPATFULL
AN 2002:136964 USPATFULL
TI Ob receptor and methods for the diagnosis and treatment of **body**
weight disorders
IN Tartaglia, Louis A., Watertown, MA, United States
Tepper, Robert I., Weston, MA, United States
Culpepper, Janice A., Brookline, MA, United States
White, David W., Holbrook, MA, United States
PA Millenium Pharmaceuticals, Inc., Cambridge, MA, United States (U.S.
corporation)
PI US 6403552 B1 20020611
AI US 1998-94410 19980609 (9)
RLI Division of Ser. No. US 1997-864564, filed on 28 May 1997
Continuation-in-part of Ser. No. US 1996-708123, filed on 3 Sep 1996
Continuation-in-part of Ser. No. US 1996-638524, filed on 26 Apr 1996
Continuation-in-part of Ser. No. US 1996-599455, filed on 22 Jan 1996,
now patented, Pat. No. US 5972621 Continuation-in-part of Ser. No. US
1995-583153, filed on 28 Dec 1995 Continuation-in-part of Ser. No. US
1995-570142, filed on 11 Dec 1995 Continuation-in-part of Ser. No. US
1995-569485, filed on 8 Dec 1995, now abandoned Continuation-in-part of
Ser. No. US 1995-566622, filed on 4 Dec 1995, now abandoned
Continuation-in-part of Ser. No. US 1995-562663, filed on 27 Nov 1995,
now abandoned
DT Utility
FS GRANTED
EXNAM Primary Examiner: Ulm, John
LREP Fish & Richardson, P.C.
CLMN Number of Claims: 41
ECL Exemplary Claim: 1
DRWN 40 Drawing Figure(s); 34 Drawing Page(s)
LN.CNT 6353

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to the discovery, identification and
characterization of nucleotides that encode Ob receptor (ObR), a
receptor protein that participates in mammalian **body** weight
regulation. The invention encompasses obR nucleotides, host cell
expression systems, ObR proteins, fusion proteins, polypeptides and
peptides, antibodies to the receptor, transgenic animals that express an
obR transgene, or recombinant knock-out animals that do not express the
ObR, antagonists and agonists of the receptor, and other compounds that
modulate obR gene expression or ObR activity that can be used for
diagnosis, drug screening, clinical trial monitoring, and/or the
treatment of **body** weight disorders, including but not limited

to obesity, cachexia and anorexia.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 4 OF 16 USPATFULL
AN 2002:122446 USPATFULL
TI Methods of identifying compounds that modulate **body** weight
using the OB receptor
IN Tartaglia, Louis A., Watertown, MA, United States
Tepper, Robert I., Weston, MA, United States
Culpepper, Janice A., Brookline, MA, United States
White, David W., Holbrook, MA, United States
PA Millennium Pharmaceuticals, Inc., Cambridge, MA, United States (U.S.
corporation)
PI US 6395498 B1 20020528
AI US 1997-864564 19970528 (8)
RLI Continuation-in-part of Ser. No. US 1996-708123, filed on 3 Sep 1996
Continuation-in-part of Ser. No. US 1996-638524, filed on 26 Apr 1996
Continuation-in-part of Ser. No. US 1996-599455, filed on 22 Jan 1996,
now patented, Pat. No. US 5972621 Continuation-in-part of Ser. No. US
1995-583153, filed on 28 Dec 1995 Continuation-in-part of Ser. No. US
1995-570142, filed on 11 Dec 1995 Continuation-in-part of Ser. No. US
1995-569485, filed on 8 Dec 1995, now abandoned Continuation-in-part of
Ser. No. US 1995-566622, filed on 4 Dec 1995, now abandoned
Continuation-in-part of Ser. No. US 1995-562663, filed on 27 Nov 1995,
now abandoned
DT Utility
FS GRANTED
EXNAM Primary Examiner: Ulm, John
LREP Fish & Richardson, P.C.
CLMN Number of Claims: 20
ECL Exemplary Claim: 1
DRWN 40 Drawing Figure(s); 34 Drawing Page(s)
LN.CNT 6476

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to the discovery, identification and
characterization of nucleotides that encode Ob receptor (ObR), a
receptor protein that participates in mammalian **body** weight
regulation. The invention encompasses obR nucleotides, host cell
expression systems, ObR proteins, fusion proteins, polypeptides and
peptides, antibodies to the receptor, transgenic animals that express an
obR transgene, or recombinant knock-out animals that do not express the
ObR, antagonists and agonists of the receptor, and other compounds that
modulate obR gene expression or ObR activity that can be used for
diagnosis, drug screening, clinical trial monitoring, and/or the
treatment of **body** weight disorders, including but not limited
to obesity, cachexia and anorexia.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 5 OF 16 USPATFULL
AN 2002:95935 USPATFULL
TI Antibodies to the Ob receptor
IN Tartaglia, Louis A., 104 Coolidge Hill Rd., Apt. 6, Watertown, MA,
United States 02172
Tepper, Robert I., 53 Laurel Rd., Weston, MA, United States 02193
Culpepper, Janice A., 1734 Beacon St., Brookline, MA, United States
02146
White, David W., 393 Pine St., Holbrook, MA, United States 02343
PI US 6380363 B1 20020430
AI US 1998-137132 19980819 (9)
RLI Division of Ser. No. US 1997-864564, filed on 28 May 1997
Continuation-in-part of Ser. No. US 1996-708123, filed on 3 Sep 1996
Continuation-in-part of Ser. No. US 1996-638524, filed on 26 Apr 1996
Continuation-in-part of Ser. No. US 1996-599455, filed on 22 Jan 1996,

now patented, Pat. No. US 5972621 Continuation-in-part of Ser. No. US 1995-583153, filed on 28 Dec 1995 Continuation-in-part of Ser. No. US 1995-570142, filed on 11 Dec 1995 Continuation-in-part of Ser. No. US 1995-569485, filed on 8 Dec 1995, now abandoned Continuation-in-part of Ser. No. US 1995-566622, filed on 4 Dec 1995, now abandoned Continuation-in-part of Ser. No. US 1995-562663, filed on 27 Nov 1995, now abandoned

DT Utility

FS GRANTED

EXNAM Primary Examiner: Spector, Lorraine; Assistant Examiner: O'Hara, Eileen B.

CLMN Number of Claims: 11

ECL Exemplary Claim: 1

DRWN 40 Drawing Figure(s); 34 Drawing Page(s)

LN.CNT 6254

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to the discovery, identification and characterization of nucleotides that encode Ob receptor (ObR), a receptor protein that participates in mammalian **body** weight regulation. The invention encompasses obR nucleotides, host cell expression systems, ObR proteins, fusion proteins, polypeptides and peptides, antibodies to the receptor, transgenic animals that express an obR transgene, or recombinant knock-out animals that do not express the ObR, antagonists and agonists of the receptor, and other compounds that modulate obR gene expression or ObR activity that can be used for diagnosis, drug screening, clinical trial monitoring, and/or the treatment of **body** weight disorders, including but not limited to obesity, cachexia and anorexia.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 6 OF 16 USPATFULL

AN 2002:75643 USPATFULL

TI Methods comprising apoptosis inhibitors for the generation of transgenic pigs

IN Piedrahita, Jorge A., College Station, TX, United States

Bazer, Fuller W., College Station, TX, United States

PA Texas A&M University System, College Station, TX, United States (U.S. corporation)

PI US 6369294 B1 20020409

US 2002045253 A1 20020418

AI US 2001-819964 20010328 (9)

RLI Continuation of Ser. No. US 1997-949155, filed on 10 Oct 1997, now patented, Pat. No. US 6271436

PRAI US 1997-46094P 19970509 (60)

US 1996-27338P 19961011 (60)

DT Utility

FS GRANTED

EXNAM Primary Examiner: Crouch, Deborah; Assistant Examiner: Pappu, Sita

LREP Bracewell & Patterson L.L.P.

CLMN Number of Claims: 58

ECL Exemplary Claim: 1

DRWN 2 Drawing Figure(s); 2 Drawing Page(s)

LN.CNT 9398

AB Disclosed are methods for the isolation of primordial germ cells, culturing these cells to produce primordial germ cell-derived cell lines, methods for transforming both the primordial germ cells and the cultured cell lines, and using these transformed cells and cell lines to generate transgenic animals. The **efficiency** at which transgenic animals are generated by the present invention is greatly increased, thereby allowing the use of homologous recombination in producing transgenic non-rodent animal species.

L9 ANSWER 7 OF 16 USPATFULL

AN 2002:8099 USPATFULL
TI **Feed for livestock**
IN Shinzato, Izuru, Kanagawa, JAPAN
Sato, Hiroyuki, Kanagawa, JAPAN
Toride, Yasuhiko, Tokyo, JAPAN
Takeuchi, Makoto, Tokyo, JAPAN
PA AJINOMOTO CO., INC., Chuo-ku, JAPAN, 104-8315 (non-U.S. corporation)
PI US 2002004096 A1 20020110
AI US 2001-864251 A1 20010525 (9)
PRAI JP 2000-155826 20000526
DT Utility
FS APPLICATION
LREP OBLON SPIVAK MCCLELLAND MAIER & NEUSTADT PC, FOURTH FLOOR, 1755
JEFFERSON DAVIS HIGHWAY, ARLINGTON, VA, 22202
CLMN Number of Claims: 5
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 526

AB A composition for **livestock feed**, comprising a
feed for livestock and at least two additives selected
from the group consisting of **nucleic acid**, **glutamine**
and **glutamic acid**; and a method for increasing **body**
weight **gain efficiency** and **feed**
efficiency in livestock, comprising administering the
above composition for **livestock feed** to
livestock.

L9 ANSWER 8 OF 16 USPATFULL

AN 2001:152690 USPATFULL
TI Methods of using the Ob receptor to identify therapeutic compounds
IN Tartaglia, Louis A., Watertown, MA, United States
Tepper, Robert I., Weston, MA, United States
Culpepper, Janice A., Brookline, MA, United States
White, David W., Holbrook, MA, United States
PA Millennium Pharmaceuticals, Inc., Cambridge, MA, United States (U.S.
corporation)
PI US 6287782 B1 20010911
AI US 1998-69781 19980429 (9)
RLI Continuation-in-part of Ser. No. US 1997-864564, filed on 28 May 1997
Continuation-in-part of Ser. No. US 1996-708123, filed on 3 Sep 1996
Continuation-in-part of Ser. No. US 1996-638524, filed on 26 Apr 1996
Continuation-in-part of Ser. No. US 1996-599455, filed on 22 Jan 1996,
now patented, Pat. No. US 5972621 Continuation-in-part of Ser. No. US
1995-583153, filed on 28 Dec 1995 Continuation-in-part of Ser. No. US
1995-570142, filed on 11 Dec 1995 Continuation-in-part of Ser. No. US
1995-569485, filed on 8 Dec 1995, now abandoned Continuation-in-part of
Ser. No. US 1995-566622, filed on 4 Dec 1995, now abandoned
Continuation-in-part of Ser. No. US 1995-562663, filed on 27 Nov 1995,
now abandoned
DT Utility
FS GRANTED
EXNAM Primary Examiner: Ulm, John
LREP Fish & Richardson P.C.
CLMN Number of Claims: 7
ECL Exemplary Claim: 1
DRWN 40 Drawing Figure(s); 34 Drawing Page(s)
LN.CNT 5178

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to the discovery, identification and
characterization of nucleotides that encode Ob receptor (ObR), a
receptor protein that participates in mammalian **body** weight
regulation. The invention encompasses obR nucleotides, host cell
expression systems, ObR proteins, fusion proteins, polypeptides and
peptides, antibodies to the receptor, transgenic animals that express an

obR transgene, or recombinant knock-out animals that do not express the ObR, antagonists and agonists of the receptor, and other compounds that modulate obR gene expression or ObR activity that can be used for diagnosis, drug screening, clinical trial monitoring, and/or the treatment of **body** weight disorders, including but not limited to obesity, cachexia and anorexia.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 9 OF 16 USPATFULL
AN 2001:126193 USPATFULL
TI Cells and methods for the generation of transgenic pigs
IN Piedrahita, Jorge A., College Station, TX, United States
Bazer, Fuller W., College Station, TX, United States
PA The Texas A & M University System, College Station, TX, United States
(U.S. corporation)
PI US 6271436 B1 20010807
AI US 1997-949155 19971010 (8)
PRAI US 1996-27338P 19961011 (60)
US 1997-46094P 19970509 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Martin, Jill D.
LREP Williams, Morgan & Amerson
CLMN Number of Claims: 69
ECL Exemplary Claim: 55
DRWN 2 Drawing Figure(s); 2 Drawing Page(s)
LN.CNT 8905
AB Disclosed are methods for the isolation of primordial germ cells, culturing these cells to produce primordial germ cell-derived cell lines, methods for transforming both the primordial germ cells and the cultured cell lines, and using these transformed cells and cell lines to generate transgenic animals. The **efficiency** at which transgenic animals are generated by the present invention is greatly increased, thereby allowing the use of homologous recombination in producing transgenic non-rodent animal species.

L9 ANSWER 10 OF 16 USPATFULL
AN 2001:97888 USPATFULL
TI Insulin-like growth factor agonist molecules
IN Clark, Ross G., Auckland, New Zealand
Lowman, Henry B., El Granada, CA, United States
Robinson, Iain C. A. F., St. Albans, United Kingdom
PA Genentech, Inc., South San Francisco, CA, United States (U.S. corporation)
PI US 6251865 B1 20010626
AI US 1998-52888 19980331 (9)
RLI Continuation-in-part of Ser. No. US 1997-825852, filed on 4 Apr 1997, now patented, Pat. No. US 6121416
DT Utility
FS GRANTED
EXNAM Primary Examiner: Romeo, David
LREP Hasak, Janet E.
CLMN Number of Claims: 12
ECL Exemplary Claim: 1
DRWN 66 Drawing Figure(s); 44 Drawing Page(s)
LN.CNT 4925

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compounds are provided that inhibit the interaction of an IGF with any one of its binding proteins and not to a human IGF receptor. These IGF agonist compounds, which include peptides, are useful to increase serum and tissue levels of active IGFs in a mammal.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 11 OF 16 USPATFULL
AN 2001:48307 USPATFULL
TI Amino polyol amine oxidase polynucleotides and related polypeptides and methods of use
IN Duvick, Jonathan P., Des Moines, IA, United States
Gilliam, Jacob T., Norwalk, IA, United States
Maddox, Joyce R., Des Moines, IA, United States
Crasta, Oswald R., Branford, CT, United States
Folkerts, Otto, Guilford, CT, United States
PA Pioneer Hi-Bred International, Inc., Des Moines, IA, United States (U.S. corporation)
CuraGen Corporation, New Haven, CT, United States (U.S. corporation)
PI US 6211435 B1 20010403
AI US 1999-352168 19990712 (9)
PRAI US 1998-92936P 19980715 (60)
DT Utility
FS Granted
EXNAM Primary Examiner: Fox, David T.; Assistant Examiner: Ibrahim, Medina A.
LREP Pioneer Hi-Bred International, Inc.
CLMN Number of Claims: 14
ECL Exemplary Claim: 1,10,12
DRWN No Drawings
LN.CNT 2730

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides polynucleotides and related polypeptides of the enzyme APAO isolated from *Exophiala spinifera*. Additionally, the polynucleotide encoding for the APAO enzyme can be used to transform plant cells normally susceptible to *Fusarium* or other toxin-producing fungus infection. Plants can be regenerated from the transformed plant cells. Additionally, the present invention provides for expressing both APAO and a fumonisin esterase in a transgenic plant. In this way, a transgenic plant can be produced with the capability of degrading fumonisin, as well as with the capability of producing the degrading enzymes. In addition, the present invention provides methods for producing the APAO enzyme in both prokaryotic and non-plant eukaryotic systems. Methods for detoxification in grain, grain processing, silage, food crops and in animal **feed** and rumen microbes are also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 12 OF 16 USPATFULL
AN 2001:48306 USPATFULL
TI Amino polyol amine oxidase polynucleotides and related polypeptides and methods of use
IN Duvick, Jonathan P., Des Moines, IA, United States
Gilliam, Jacob T., Norwalk, IA, United States
Maddox, Joyce R., Des Moines, IA, United States
PA Pioneer Hi-Bred International, Inc., Des Moines, IA, United States (U.S. corporation)
PI US 6211434 B1 20010403
AI US 1999-352159 19990712 (9)
PRAI US 1999-135391P 19990521 (60)
US 1998-92936P 19980715 (60)
DT Utility
FS Granted
EXNAM Primary Examiner: Fox, David T.; Assistant Examiner: Ibrahim, Medina A.
LREP Pioneer Hi-Bred International, Inc.
CLMN Number of Claims: 12
ECL Exemplary Claim: 1,3,6,11
DRWN No Drawings
LN.CNT 2885

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides polynucleotides and related polypeptides

of the enzyme APAO isolated from *Exophiala spinifera* and *Rhinocladiella atrovirens*. Additionally, the polynucleotides encoding for the APAO enzyme can be used to transform plant cells normally susceptible to *Fusarium* or other toxin-producing fungus infection. Plants can be regenerated from the transformed plant cells. Additionally, the present invention provides for expressing both APAO and a fumonisin esterase in a transgenic plant. In this way, a transgenic plant can be produced with the capability of degrading fumonisin, as well as with the capability of producing the degrading enzymes. In addition, the present invention provides methods for producing the APAO enzyme in both prokaryotic and non-plant eukaryotic systems. Methods for detoxification in grain, grain processing, silage, food crops and in animal **feed** and rumen microbes are also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 13 OF 16 USPATFULL
AN 2000:125192 USPATFULL
TI Insulin-like growth factor agonist molecules
IN Clark, Ross G., Pacifica, CA, United States
Lowman, Henry B., El Granada, CA, United States
Robinson, Iain C. A. F., St. Albans, United Kingdom
PA Genentech, Inc., South San Francisco, CA, United States (U.S.
corporation)
PI US 6121416 20000919
AI US 1997-825852 19970404 (8)
DT Utility
FS Granted
EXNAM Primary Examiner: Kemmerer, Elizabeth; Assistant Examiner: Romeo, David S.
LREP Hasak, Janet E.
CLMN Number of Claims: 9
ECL Exemplary Claim: 1
DRWN 60 Drawing Figure(s); 44 Drawing Page(s)
LN.CNT 5277

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compounds are provided that prevent the interaction of an IGF with any one of its binding proteins and not to a human IGF receptor. These IGF agonist compounds, which include peptides, are useful to increase serum and tissue levels of active IGFs in a mammal

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 14 OF 16 USPATFULL
AN 1999:132511 USPATFULL
TI Methods of identifying compounds that modulate **body** weight using the OB receptor
IN Tartaglia, Louis A, Watertown, MA, United States
Tepper, Robert I, Weston, MA, United States
Culpepper, Janice A, Brookline, MA, United States
PA Millennium Pharmaceuticals, Inc., Cambridge, MA, United States (U.S. corporation)
PI US 5972621 19991026
AI US 1996-599455 19960122 (8)
RLI Continuation-in-part of Ser. No. US 1995-583153, filed on 28 Dec 1995 which is a continuation-in-part of Ser. No. US 1995-570142, filed on 11 Dec 1995 which is a continuation-in-part of Ser. No. US 1995-569485, filed on 8 Dec 1995 which is a continuation-in-part of Ser. No. US 1995-566622, filed on 4 Dec 1995 which is a continuation-in-part of Ser. No. US 1995-562663, filed on 27 Nov 1995
DT Utility
FS Granted
EXNAM Primary Examiner: Draper, Garnette D.
LREP Fish & Richardson, P.C.
CLMN Number of Claims: 16

ECL Exemplary Claim: 1
DRWN 26 Drawing Figure(s); 25 Drawing Page(s)
LN.CNT 5462

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to the discovery, identification and characterization of nucleotides that encode Ob receptor (ObR), a receptor protein that participates in mammalian **body** weight regulation. The invention encompasses obR nucleotides, host cell expression systems, ObR proteins, fusion proteins, polypeptides and peptides, antibodies to the receptor, transgenic animals that express an obR transgene, or recombinant knock-out animals that do not express the ObR, antagonists and agonists of the receptor, and other compounds that modulate obR gene expression or ObR activity that can be used for diagnosis, drug screening, clinical trial monitoring, and/or the treatment of **body** weight disorders, including but not limited to obesity, cachexia and anorexia.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 15 OF 16 USPATFULL
AN 96:75512 USPATFULL
TI Somatotropins with alterations in the alpha-helix 1 region, and combinations with other mutations
IN Fischer, Meir, Rehovot, Israel
Lebens, Michael R., Gotenberg, Sweden
Chaleff, Deborah T., Mercer, NJ, United States
PA Bio-Technology General Corp., Iselin, NJ, United States (U.S. corporation)
American Cyanamid Company, Wayne, NJ, United States (U.S. corporation)
PI US 5548068 19960820
AI US 1994-363982 19941223 (8)
RLI Continuation of Ser. No. US 1993-10405, filed on 28 Jan 1993, now abandoned which is a continuation of Ser. No. US 1990-621656, filed on 30 Nov 1990, now abandoned
DT Utility
FS Granted
EXNAM Primary Examiner: Draper, Garnette D.; Assistant Examiner: Carlson, K. Cochrane
LREP White, John P.
CLMN Number of Claims: 12
ECL Exemplary Claim: 1
DRWN 5 Drawing Figure(s); 5 Drawing Page(s)
LN.CNT 1354

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to somatotropin analogues with amino acid changes in the alpha-helix 1 regions of said somatotropins, alone or in combination with mutations in the alpha-helix 3 and/or alpha-helix 2 regions, plus combinations with other changes to the native amino acid sequence of somatotropins. The resulting analogues are stable for formulation in sustained release formulations, while maintaining biological activity. Further, methods for conducting site-directed mutagenesis on DNA encoding proteins and/or polypeptide also are provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 16 OF 16 USPATFULL
AN 94:40201 USPATFULL
TI Somatotropins with alterations in the .alpha.-helix 3 region
IN Chaleff, Deborah T., Pennington, NJ, United States
PA American Cyanamid Company, Wayne, NJ, United States (U.S. corporation)
PI US 5310882 19940510
AI US 1990-621197 19901130 (7)
DT Utility
FS Granted

EXNAM Primary Examiner: Moezie, F. T.
LREP Tsevdos, Estelle J.
CLMN Number of Claims: 10
ECL Exemplary Claim: 1
DRWN 5 Drawing Figure(s); 5 Drawing Page(s)
LN.CNT 1289

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to somatotropin analogues with amino acid changes in the .alpha.-helix 3 regions of said somatotropins, changes in the .alpha.-helix 2 regions, combinations thereof plus combinations with other changes to the native amino acid sequence of somatotropins. The resulting analogues are stable for formulation in sustained release, formulations, while maintaining biological activity. Further, methods for conducting site-directed mutagenesis on DNA encoding proteins and/or polypeptides also are provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> file biosis

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

33.82

37.74

FILE 'BIOSIS' ENTERED AT 08:56:03 ON 19 SEP 2002

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FILE COVERS 1969 TO DATE.

CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT
FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 18 September 2002 (20020918/ED)

=> s 13 and 14

82332 FEED

9945 FEEDS

88102 FEED

(FEED OR FEEDS)

35711 LIVESTOCK

27 LIVESTOCKS

35722 LIVESTOCK

(LIVESTOCK OR LIVESTOCKS)

26662 GLUTAMINE

199 GLUTAMINES

26777 GLUTAMINE

(GLUTAMINE OR GLUTAMINES)

82332 FEED

9945 FEEDS

88102 FEED

(FEED OR FEEDS)

35711 LIVESTOCK

27 LIVESTOCKS

35722 LIVESTOCK

(LIVESTOCK OR LIVESTOCKS)

26662 GLUTAMINE

199 GLUTAMINES

26777 GLUTAMINE

(GLUTAMINE OR GLUTAMINES)

27688 GLUTAMIC

L10

0 L3 AND L4

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

2.49

40.23

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FILE COVERS 1907 - 19 Sep 2002 VOL 137 ISS 12
FILE LAST UPDATED: 18 Sep 2002 (20020918/ED)

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=> s l3 and l4

181811 FEED
20947 FEEDS
189518 FEED
 (FEED OR FEEDS)
7951 LIVESTOCK
49 LIVESTOCKS
7963 LIVESTOCK
 (LIVESTOCK OR LIVESTOCKS)
39360 GLUTAMINE
264 GLUTAMINES
39472 GLUTAMINE
 (GLUTAMINE OR GLUTAMINES)
181811 FEED
20947 FEEDS
189518 FEED
 (FEED OR FEEDS)
7951 LIVESTOCK
49 LIVESTOCKS
7963 LIVESTOCK
 (LIVESTOCK OR LIVESTOCKS)
39360 GLUTAMINE
264 GLUTAMINES
39472 GLUTAMINE
 (GLUTAMINE OR GLUTAMINES)
88463 GLUTAMIC
1 GLUTAMICS
88463 GLUTAMIC
 (GLUTAMIC OR GLUTAMICS)

L11 1 L3 AND L4

=> dis l11 bib abs

L11 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS
AN 2001:858407 CAPLUS
TI Feed for livestock

IN Shinzato, Izuru; Sato, Hiroyuki; Toride, Yasuhiko; Takeuchi, Makoto
PA Ajinomoto Co., Inc., Japan
SO Eur. Pat. Appl.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1157616	A1	20011128	EP 2001-112724	20010525
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	CN 1325633	A	20011212	CN 2001-116179	20010525
PRAI	JP 2000-155826	A	20000526		
AB	A compn. for livestock feed , comprising a feed for livestock and at least two additives selected from the group consisting of nucleic acid, glutamine and glutamic acid ; and a method for increasing body wt. gain efficiency and feed efficiency in livestock , comprising administering the above compn. for livestock feed to livestock .				

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> index agriculture
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
14.08	54.31

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-0.62	-0.62

CA SUBSCRIBER PRICE

INDEX 'AGRICOLA, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHNO, CABA, CAPLUS, CBNB, CIN, CONFSCI, CROPB, CROPU, ESBIODASE, FEDRIP, FOMAD, FOREGE, FROSTI, FSTA, GENBANK, IFIPAT, INVESTEXT, LIFESCI, NAPRALERT, NTIS, PASCAL, PHIC, PHIN, PROMT, SCISEARCH, ...' ENTERED AT 08:58:20 ON 19 SEP 2002

31 FILES IN THE FILE LIST IN STNINDEX

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search error messages that display as 0* with SET DETAIL OFF.

=> s 13

10 FILE BIOBUSINESS
4 FILE BIOSIS
1 FILE CABA
2 FILE CAPLUS
3 FILE FEDRIP
1 FILE IFIPAT

20 FILES SEARCHED...

2 FILE PROMT
395 FILE USPATFULL
3 FILE USPAT2

9 FILES HAVE ONE OR MORE ANSWERS, 31 FILES SEARCHED IN STNINDEX

L12 QUE L3

=> index food
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
1.59	55.90

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-0.62

INDEX 'AGRICOLA, BIOSIS, BIOTECHNO, CABA, CAPLUS, FEDRIP, FOMAD, FOREGE, FROSTI, FSTA, JICST-EPLUS, PASCAL, PROMT, MEDICONF, NTIS, SCISEARCH, TOXCENTER'
 ENTERED AT 09:00:00 ON 19 SEP 2002

17 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view
 search error messages that display as 0* with SET DETAIL OFF.

=> s 13

```

4  FILE BIOSIS
1  FILE CABA
2  FILE CAPLUS
3  FILE FEDRIP
2  FILE PROMT

```

5 FILES HAVE ONE OR MORE ANSWERS, 17 FILES SEARCHED IN STNINDEX

L13 QUE L3

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.53	56.43

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-0.62

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FILE COVERS 1907 - 19 Sep 2002 VOL 137 ISS 12
 FILE LAST UPDATED: 18 Sep 2002 (20020918/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

=> s composition

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593256 COMPOSITION
241576 COMPOSITIONS
830956 COMPOSITION
      (COMPOSITION OR COMPOSITIONS)

```

1170274 COMPN
459098 COMPNS
1427014 COMPN
(COMPN OR COMPNS)
L14 1860325 COMPOSITION
(COMPOSITION OR COMPN)

=> s 114 and feed
181811 FEED
20947 FEEDS
189518 FEED
(FEED OR FEEDS)

L15 26793 L14 AND FEED

=> s 115 and livestock
7951 LIVESTOCK
49 LIVESTOCKS
7963 LIVESTOCK
(LIVESTOCK OR LIVESTOCKS)

L16 425 L15 AND LIVESTOCK

=> s 116 and glutamic
88463 GLUTAMIC
1 GLUTAMICS
88463 GLUTAMIC
(GLUTAMIC OR GLUTAMICS)

L17 11 L16 AND GLUTAMIC

=> s 117 and glutamine
39360 GLUTAMINE
264 GLUTAMINES
39472 GLUTAMINE
(GLUTAMINE OR GLUTAMINES)

L18 1 L17 AND GLUTAMINE

=> s 116 and nucleic
127822 NUCLEIC
11 NUCLEICS
127825 NUCLEIC
(NUCLEIC OR NUCLEICS)

L19 3 L16 AND NUCLEIC

=> s 119 and glutamine
39360 GLUTAMINE
264 GLUTAMINES
39472 GLUTAMINE
(GLUTAMINE OR GLUTAMINES)

L20 1 L19 AND GLUTAMINE

=> dis 117 1-11 bib abs

L17 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2002 ACS

AN 2001:858407 CAPLUS

TI **Feed for livestock**

IN Shinzato, Izuru; Sato, Hiroyuki; Toride, Yasuhiko; Takeuchi, Makoto

PA Ajinomoto Co., Inc., Japan

SO Eur. Pat. Appl.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1157616	A1	20011128	EP 2001-112724	20010525

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,

IE, SI, LT, LV, FI, RO
 CN 1325633 A 20011212 CN 2001-116179 20010525
 PRAI JP 2000-155826 A 20000526
 AB A **compn.** for **livestock feed**, comprising a
feed for **livestock** and at least two additives selected
 from the group consisting of nucleic acid, glutamine and **glutamic**
 acid; and a method for increasing body wt. gain efficiency and
feed efficiency in **livestock**, comprising administering
 the above **compn.** for **livestock feed** to
livestock.
 RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2002 ACS
 AN 2001:344560 CAPLUS
 DN 134:310111
 TI Oral **feed composition** containing an animal-based
 hydrolyzate and a process for its fabrication
 IN Arrive, Jacques; Gouraud, Gilles; Grimaud, Joseph
 PA Etablissements Arrive S. A., Fr.
 SO Fr. Demande, 12 pp.
 CODEN: FRXXBL
 DT Patent
 LA French
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2795919	A1	20010112	FR 1999-8954	19990709
	FR 2795919	B1	20010928		
AB	An animal feed compn. comprises acid-hydrolyzed protein-contg. bird or swine products or byproducts such as head and carcass, viscera, duck and chicken egg products, the hydrolyzate having a pH <1.5.				

L17 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2002 ACS
 AN 1997:384 CAPLUS
 DN 126:30660
 TI **Feed composition** containing poly-.gamma.-
glutamic acid
 IN Tanimoto, Hiroyuki; Sato, Hitoshi; Karasawa, Masahiko; Iwasaki, Kazuya;
 Oshima, Akio; Adachi, Sonosuke
 PA Ajinomoto Co., Inc., Japan; Tanimoto, Hiroyuki; Sato, Hitoshi; Karasawa,
 Masahiko; Iwasaki, Kazuya; Oshima, Akio; Adachi, Sonosuke
 SO PCT Int. Appl., 20 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9635339	A1	19961114	WO 1996-JP1242	19960510
	W: AU, BR, CA, CN, KR, MX, US RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	JP 09028309	A2	19970204	JP 1996-79922	19960402
	CA 2220939	AA	19961114	CA 1996-2220939	19960510
	AU 9656595	A1	19961129	AU 1996-56595	19960510
	EP 826310	A1	19980304	EP 1996-913723	19960510
	R: DE, ES, FR, GB, IT, NL				
	BR 9608518	A	19990608	BR 1996-8518	19960510
	US 6251422	B1	20010626	US 1997-945806	19971112
PRAI	JP 1995-114602	A	19950512		
	JP 1996-79922	A	19960402		
	WO 1996-JP1242	W	19960510		
AB	A feed compn. for animals, such as a livestock contains poly-.gamma.- glutamic acid (I) and/or hydrolyzates of				

I. The **feed compn.** promotes the absorption of minerals, increases the strength of egg shells, and inhibits the accumulation of body fat.

L17 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2002 ACS

AN 1996:676901 CAPLUS

DN 125:323047

TI Chemical and amino acid **composition** of alligator weed
(*Alternanthera philoxeroides*)

AU Bhatta, Raghavendra; Das, T. K.

CS Department Animal Nutrition, Veterinary College, Bangalore, 560024, India

SO Indian Veterinary Journal (1996), 73(7), 799-800

CODEN: IVEJAC; ISSN: 0019-6479

PB Indian Veterinary Association

DT Journal

LA English

AB The chem. **compn.** of alligator weed was detd. to explore the possibility of incorporation in the ruminant ration. The crit. amino acids like lysine and methionine were deficient in alligator weed and non-essential amino acids like **glutamic** and aspartic acids were higher. Similar pattern of essential and non-essential amino acids were found in most of the **livestock feeds**. Thus, alligator weed can be incorporated up to 15% in the ration of ruminants.

L17 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2002 ACS

AN 1992:590600 CAPLUS

DN 117:190600

TI Contents and componential **composition** of amino acids in plants
of the flood plain meadows of the Selenga River basin

AU Ubugunov, L. L.; Merkusheva, M. G.

CS Buryatsk. Inst. Biol., Ulan-Ude, Russia

SO Rastit. Resur. (1992), 28(1), 118-21

CODEN: RRESA8; ISSN: 0033-9946

DT Journal

LA Russian

AB These flood plain meadows are the basic forage source for Western Transbaikal and Northern Mongolia **livestock**, providing hay and pastures. The contents and **compn.** of amino acids were detd. in major species of mesophytic meadows during cutting for hay. Total and essential amino acids were highest in legumes, 84.7-99.0 and 43.7-49.2 g/kg, resp. For the overall forage (of which the legumes were 5%), essential amino acids were 45.9-57.2% of total amino acids. Most species contained 16 amino acids, including 9 essential amino acids. Histidine, methionine, and phenylalanine were low.

L17 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2002 ACS

AN 1986:167164 CAPLUS

DN 104:167164

TI Nutrient content of hydroponically sprouted barley

AU Peer, D. J.; Leeson, S.

CS Dep. Anim. Poult. Sci., Univ. Guelph, Guelph, ON, N1G 2W1, Can.

SO Anim. Feed Sci. Technol. (1985), 13(3-4), 191-202

CODEN: AFSTDH; ISSN: 0377-8401

DT Journal

LA English

AB Barley grain was sprouted hydroponically in light at 21.degree. for 1-7 days. Samples were freeze-dried, ground to pass a 1-mm screen, and analyzed for proximate nutrients, amino acids, minerals, and fatty acids. During sprouting, wts. of dry matter (DM), starch [9005-25-8] (N-free ext.), and gross energy decreased markedly. A smaller redn. in protein wt. also occurred. Wts. of ash and fat increased slightly and fiber increased markedly with increased sprouting time. Among the amino acids, wts. of cystine [56-89-3], **glutamic** acid [56-86-0], and proline [147-85-3] decreased, and aspartic acid [56-84-8] and alanine [56-41-7] increased. There was a slight gain in Cu, Na, and Zn due to the

mineral content of the water source. The fatty acid concn. showed a significant pos. relation with growth period. Thus, the younger the sprout, the greater its nutrient wt. It would appear that day 1 sprouts are nutritionally superior to day 4 sprouts, which are currently being fed to **livestock**. Field-sprouted grain, which is analogous to day 1 sprouts in terms of gross phys. appearance, would have a minimal loss of nutrients.

L17 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2002 ACS

AN 1985:226067 CAPLUS

DN 102:226067

TI **Composition** for the prevention and treatment of disorders of the digestive secretions of animals

IN Sinchievici, Boris; Vior, Elena; Popescu, Valeria

PA Institutul de Cercetari Veterinare si Biopreparate "Pasteur", Rom.

SO Rom., 3 pp.

CODEN: RUXXA3

DT Patent

LA Romanian

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	RO 83312	B	19840221	RO 1981-104049	19810417

AB A pharmaceutical **compn.** for prevention and treatment of digestive secretion disorders in young animals (calf, piglet) comprises **glutamic** acid-HCl [138-15-8] 250, 1:50,000 pepsin [9001-75-6] 80, retinol [68-26-8] 10, vitamin D3 [67-97-0] 2, vitamin E [1406-18-4] 1.2, vitamin K3 [58-27-5] 0.8, vitamin B1 [59-43-8] 3, vitamin B2 [83-88-5] Ca pantothenate [137-08-6] 1.25, nicotinic acid [59-67-6] 8.5, pyridoxine [65-23-6] 7, ascorbic acid [50-81-7] 8 and lactose 627.497 g, and .gamma.-inositol [6917-35-7] 37.5, folic acid [59-30-3] 50, and vitamin B12 [68-19-9] 15 mg. The **compn.** is a white-yellow powder, hygroscopic, with an acid smell and taste, sol. in water, should be kept in a dry environment and has a shelf-life of 3 mo. The **compn.** is administered to suckling piglets in the 1st week of life at 20% in an aq. soln. 2-3 mL once daily for 3 days, in young pigs at 5 kg/ton **feed** for 12 days, and in suckling calves in the 1st week of life 2.5-3 g in 250 mL warm plant infusion twice daily in the morning and evening for 5-6 days beginning with colostrum.

L17 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2002 ACS

AN 1980:573135 CAPLUS

DN 93:173135

TI **Composition** of the biomass of activated sludge of meat-plant waste-treatment installations

AU Salyuk, A. I.; Nikitin, G. A.; Levitina, N. V.

CS Kiev. Tekhnol. Inst. Pishchevoi Prom., Kiev, USSR

SO Myasn. Ind. SSSR (1979), (12), 33-4

CODEN: MYISAM; ISSN: 0027-5492

DT Journal

LA Russian

AB Anal. of amino acid and vitamin **compn.** of biomass of activated sludge formed during anaerobic-aerobic treatment of meat plant wastewater showed that this biomass can be used as an additive to **livestock feed**. The biomass contains raw protein 48-59, albumin 44-56, fat 4.3-7.8, cellular tissue 6.0-34, and ash 12-24% (based on dry substance). The ash contains P, K, Na, Ca, Fe, Mn, and other trace elements. An amino acid anal. indicated that the dry biomass contains sufficient amts. of all required amino acids, with esp. high concns. of **glutamic** and aspartic acids, on aerobic treatment of the biomass for 3-4 days, the overall content of amino acids remained const., with change occurring only in their relative contents. Such treatment led to partial inactivation of pathogenic microflora and to increased content of the B vitamins.

L17 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2002 ACS

AN 1980:4935 CAPLUS
 DN 92:4935
 TI Amino acid **composition** of mountain pasture grass stands
 AU Kusainov, K.; Zhazylbekov, N.
 CS Kaz. Nauchno-Issled. Tekhnol. Inst. Zhivotnovod., Alma-Ata, USSR
 SO Vestn. S-kh. Nauki Kaz. (1979), (9), 41-2
 CODEN: VSNKBD
 DT Journal
 LA Russian
 AB Max. accumulation of amino acids by mountain pasture grass in Kazakhstan occurred between tillering and ear formation. The grass was esp. high in **glutamic** acid [56-86-0], levels being 4.5-7-fold those of aspartic acid. Hay prepd. from the grass could be a good source of essential amino acids for **livestock** kept in stables.

L17 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2002 ACS

AN 1975:577169 CAPLUS
 DN 83:177169
 TI Amino acid **composition** of poultry feces and the possibility of its use in the diet of **livestock**
 AU Feldhofer, Stejpan; Dumanovsky, Franjo; Ostric, Mira; Rapic, Branka; Milosevic, Draga; Smalcelj, Blazica; Lucic, M.
 CS Inst. Physiol. Pathol Anim. Prod., Vet. Fac., Zagreb, Yugoslavia
 SO Veterinaria (Sarajevo) (1975), 24(1), 85-94
 CODEN: VTRNAE
 DT Journal
 LA Croatian
 AB Levels of total amino acids in feces were only 26% lower than in the **feed** of pullets, in layers, 31%. The feces of poultry were particularly rich in glycine, threonine, aspartic acid, valine, lysine, proline and alanine, with small quantities of methionine, phenylalanine, **glutamic** acid, and leucine. The poultry retained 81-4% of methionine, phenylalanine, **glutamic** acid and leucine and 61-75% of glycine, threonine, aspartic acid, lysine and valine from **feed**. Accordingly these amino acids appear in corresponding proportions in the feces. On the av. 76-8% of the total amino acids from **feed** was retained, and the remaining 22-24% was excreted in the feces of chickens. The amino acids found in the feces of poultry were not only the indigestible and unabsorbed remainders of **feed** but also the products of metab. and endogenous secretion which had passed through some processes.

L17 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2002 ACS

AN 1963:424690 CAPLUS
 DN 59:24690
 OREF 59:4483a-b,4484a-b
 TI Processing of milk serum to produce **livestock feed**
 IN Naiditch, V.; Dikansky, S.
 PA Societe des Alcools du Vexin
 SO 9 pp.; Addn. to Fr. 1,235,978
 DT Patent
 LA Unavailable

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 80198		19630322	FR	19610807

AB Milk serum or whey (I) treated with molasses, molasses distillers' residues, or the by-products of **glutamic** acid production, is fermented to give a **livestock feed**. A large fermentation tower contg. *Torula cremoris* is charged with a mixt. of pH 4.1 I (5.5% dry material) and 22 g. of a protein-contg. by-product of sugar beets (17 g. dry material)/l. of I. The fermentation is continued until lactose disappears. For a source of the microorganisms, a small fermentation tower is charged with I and 1/5 of the product from the large tower. Except for this charge, the rest of the product is mixed with the small tower product to give a final mixt. with the **compn.**: H2O

6, minerals 16, lipids 0.7, lactose 18, lactic acid 1.6, protein 28, and betaine 6%.

=> dis 118 bib abs

L18 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS
AN 2001:858407 CAPLUS
TI **Feed for livestock**
IN Shinzato, Izuru; Sato, Hiroyuki; Toride, Yasuhiko; Takeuchi, Makoto
PA Ajinomoto Co., Inc., Japan
SO Eur. Pat. Appl.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1157616	A1	20011128	EP 2001-112724	20010525
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	CN 1325633	A	20011212	CN 2001-116179	20010525
PRAI	JP 2000-155826	A	20000526		

AB A **compn.** for **livestock feed**, comprising a **feed for livestock** and at least two additives selected from the group consisting of nucleic acid, **glutamine** and **glutamic** acid; and a method for increasing body wt. gain efficiency and **feed** efficiency in **livestock**, comprising administering the above **compn.** for **livestock feed** to **livestock**.

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> dis 119 1-3 bib abs

L19 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2002 ACS
AN 2001:858407 CAPLUS
TI **Feed for livestock**
IN Shinzato, Izuru; Sato, Hiroyuki; Toride, Yasuhiko; Takeuchi, Makoto
PA Ajinomoto Co., Inc., Japan
SO Eur. Pat. Appl.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1157616	A1	20011128	EP 2001-112724	20010525
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	CN 1325633	A	20011212	CN 2001-116179	20010525
PRAI	JP 2000-155826	A	20000526		

AB A **compn.** for **livestock feed**, comprising a **feed for livestock** and at least two additives selected from the group consisting of **nucleic** acid, glutamine and glutamic acid; and a method for increasing body wt. gain efficiency and **feed** efficiency in **livestock**, comprising administering the above **compn.** for **livestock feed** to **livestock**.

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2002 ACS
AN 2001:564791 CAPLUS

DN 135:121657
TI **Composition** for intestinal delivery
IN Vandenberg, Grant William
PA Aqua Solution Inc., Can.
SO PCT Int. Appl., 62 pp.
CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001054514	A1	20010802	WO 2001-CA73	20010125
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			

PRAI US 2000-178318P P 20000127

AB The present invention relates to a new **compn.**, use and method for oral administration to a human or an animal of a physiol. active agent comprising neutralizing agents to increase pH in the digestive system to prevent denaturation, inhibitors of digestive enzymes to substantially prevent enzymic digestion, and at least uptake-increasing agents which increases intestinal absorption of a physiol. active agent, a drug and/or a nutrient.

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2002 ACS

AN 2001:507784 CAPLUS

DN 135:102548

TI Antisense antibacterial cell division **composition** and method

IN Iversen, Patrick L.

PA Avi Biopharma, Inc., USA

SO PCT Int. Appl., 46 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001049775	A2	20010712	WO 2001-US222	20010104
	WO 2001049775	A3	20020321		
	W:	AU, CA, JP, KR			
	RW:	AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR			

PRAI US 2000-174484P P 20000104

AB Antisense oligomers directed to bacterial cell division and cell cycle-encoding **nucleic** acids are capable of selectively modulating the biol. activity thereof, and are useful in treatment and prevention of bacterial infection. The antisense oligomers are substantially uncharged, and contain 8-40 nucleotide subunits, including a targeting **nucleic** acid sequence at least 10 nucleotides in length which is effective to hybridize to (i) a bacterial tRNA or (ii) a target sequence, contg. a translational start codon, within a bacterial **nucleic** acid which encodes a protein assocd. with cell division or the cell cycle. Such proteins include zipA, sula, secA, dicA, dicB, dicC, dicF, ftsA, ftsI, ftsN, ftsK, ftsL, ftsQ, ftsW, ftsZ, murC, murD, murE, murF, murG, minC, minD, minE, mraY, mraW, mraZ, seqA, ddlB, carbamate kinase, D-Ala-D-Ala ligase, topoisomerase, alkyl hydroperoxide reductase, thioredoxin reductase, dihydrofolate reductase, and cell wall enzyme. A

method of prepg. vaccines against selected bacteria is also disclosed.

=> dis 120 bib abs

L20 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS
AN 2001:858407 CAPLUS
TI **Feed for livestock**
IN Shinzato, Izuru; Sato, Hiroyuki; Toride, Yasuhiko; Takeuchi, Makoto
PA Ajinomoto Co., Inc., Japan
SO Eur. Pat. Appl.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1157616	A1	20011128	EP 2001-112724	20010525
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	CN 1325633	A	20011212	CN 2001-116179	20010525
PRAI	JP 2000-155826	A	20000526		
AB	A compn. for livestock feed , comprising a feed for livestock and at least two additives selected from the group consisting of nucleic acid, glutamine and glutamic acid; and a method for increasing body wt. gain efficiency and feed efficiency in livestock , comprising administering the above compn. for livestock feed to livestock .				

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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---Logging off of STN---

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Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	50.39	106.82
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-9.91	-10.53

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F1	395	USPATFULL ✓
F2	10	BIOBUSINESS
F3	5	WPIDS
F4	5	WPINDEX
F5	4	BIOSIS ✓
F6	3	FEDRIP
F7	3	USPAT2
F8	2	CAPLUS
F9	2	PROMT
F10	1	CABA
F11	1	IFIPAT

=> s composition
593256 COMPOSITION
241576 COMPOSITIONS
830956 COMPOSITION
 (COMPOSITION OR COMPOSITIONS)
1170274 COMPN
459098 COMPNS
1427014 COMPN
 (COMPEN OR COMPNS)
L14 1860325 COMPOSITION
 (COMPOSITION OR COMPEN)

=> s 114 and feed
181811 FEED
20947 FEEDS
189518 FEED
 (FEED OR FEEDS)
L15 26793 L14 AND FEED

=> s 115 and livestock
7951 LIVESTOCK
49 LIVESTOCKS
7963 LIVESTOCK
 (LIVESTOCK OR LIVESTOCKS)
L16 425 L15 AND LIVESTOCK

=> s 116 and glutamic
88463 GLUTAMIC
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88463 GLUTAMIC
 (GLUTAMIC OR GLUTAMICS)
L17 11 L16 AND GLUTAMIC ✓

=> s 117 and glutamine
39360 GLUTAMINE
264 GLUTAMINES
39472 GLUTAMINE
 (GLUTAMINE OR GLUTAMINES)
L18 1 L17 AND GLUTAMINE

=> s 116 and nucleic
127822 NUCLEIC
11 NUCLEICS
127825 NUCLEIC
 (NUCLEIC OR NUCLEICS)
L19 3 L16 AND NUCLEIC

=> s 119 and glutamine
39360 GLUTAMINE
264 GLUTAMINES
39472 GLUTAMINE
 (GLUTAMINE OR GLUTAMINES)
L20 1 L19 AND GLUTAMINE

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=> s 13 and glutamic
    386488 FEED
    108644 FEEDS
    430396 FEED
        (FEED OR FEEDS)
    8511 LIVESTOCK
    37 LIVESTOCKS
    8526 LIVESTOCK
        (LIVESTOCK OR LIVESTOCKS)
    24825 GLUTAMINE
    124 GLUTAMINES
    24848 GLUTAMINE
        (GLUTAMINE OR GLUTAMINES)
    27496 GLUTAMIC
L4      100 L3 AND GLUTAMIC

=> 14 and nucleic
L4 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s 14 and nucleic
    47662 NUCLEIC
    5 NUCLEICS
    47663 NUCLEIC
        (NUCLEIC OR NUCLEICS)
L5      76 L4 AND NUCLEIC

=> s 15 and acid
    600450 ACID
    340824 ACIDS
    616457 ACID
        (ACID OR ACIDS)
L6      76 L5 AND ACID

=> s 15 and efficiency
    475741 EFFICIENCY
    37827 EFFICIENCIES
    484978 EFFICIENCY
        (EFFICIENCY OR EFFICIENCIES)
L7      51 L5 AND EFFICIENCY

=> s17 and body
SL7 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s 17 and body
    893445 BODY
    134303 BODIES
    923985 BODY
        (BODY OR BODIES)
L8      34 L7 AND BODY

=> s 18 and gain
    207674 GAIN
    36268 GAINS
    221200 GAIN
        (GAIN OR GAINS)
L9      16 L8 AND GAIN

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co·los·trum

co·los·trum (kə-lŏs'trəm) *noun*

The thin, yellowish fluid secreted by the mammary glands at the time of parturition that is rich in antibodies and minerals, and precedes the production of true milk. Also called *foremilk*.

[Latin.]

— co·los'tral (-trəl) *adjective*

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par·tu·ri·tion

par·tu·ri·tion (pär'tyŏō-rīsh'ən, -tŏō-, pär'chə-) *noun*
The act or process of giving birth; childbirth.

[Late Latin *parturitiō*, *parturitiōn-*, from Latin *parturītus*, past participle of *parturīre*, to be in labor. See parturient.]

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